

Baldwin™-Series Thermo-Electric Coolers

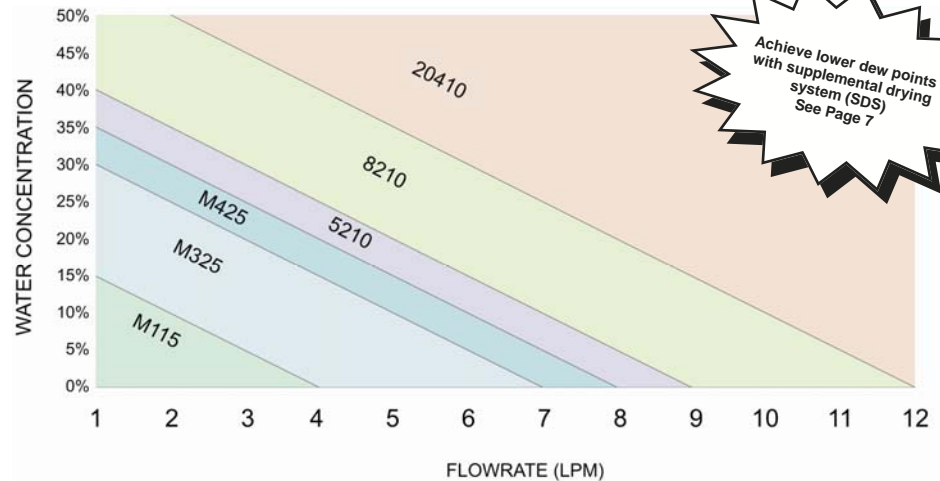
Classic Thermo-Electric Cooler

The Baldwin™-Series Classic thermo-electric coolers by Perma Pure offer a history of reliable performance for high flow rate, high ambient temperature, and high water volume applications. All Baldwin-Series coolers use thermo-electric elements (Peltiers) to cool the sample gas to the desired dew point temperature. Condensate is removed as it forms by a small peristaltic pump.



- Dependable water removal
- Low maintenance
- Single or dual sample streams
- Analog controlled
- EZ-Clean twist-apart impingers
- LCD temperature display
- Excellent corrosion resistance
- Alarm relays protect analyzers

Model	Impingers	
	Active	Passive
M115		1 x 5 in.
M325	1 x 5 in.	1 x 5 in.
M425		2 x 5 in.
610P		1 x 10 in.
5210	1 x 10 in.	1 x 10 in.
8210		2 x 10 in.
20410	2 x 10 in.	2 x 10 in.



Achieve lower dew points with supplemental drying system (SDS) See Page 7

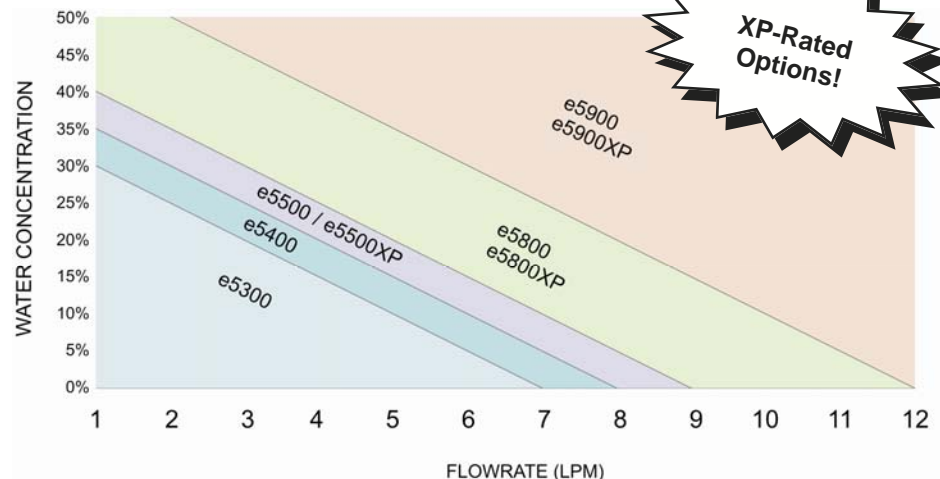
eCOOL™ DIGITAL THERMO-ELECTRIC COOLER

A revolution in gas sample conditioning, the Baldwin-Series eCool™ coolers offer all the water removal features of the "Classic" series with the additional convenience of digital controls for remote monitoring and data collection.



- Remote control and monitoring of probe, sample line and cooler
- Digital control via custom windows application over a network or Modbus over TCP/IP
- CSA Rated Class I, Division II models available
- e5500XP, e5800XP, e5900XP
- CE Rated

Model	Impingers	
	Active	Passive
e5300	1 x 5 in.	1 x 5 in.
e5400		2 x 5 in.
e5500	1 x 10 in.	1 x 10 in.
e5800		2 x 10 in.
e5900	2 x 10 in.	2 x 10 in.



XP-Rated Options!

SO₃ Aerosol Removal Cooler, Model 10410

The Baldwin™-Series Model 10410 is specifically designed for removal of acid gas in applications with high SO₃ content (>10 ppm). After one passive (ambient) and one active (4°C) impinger, sample gas is pumped through one of two active Kynar®-packed impingers cooled to -7°C, which alternately freeze and thaw, wringing out acid liquids in the process.



- Designed for high SO₃ content
- Excellent corrosion resistance
- Yields sample dew points as low as -7°C
- Accepts flow rates up to 10 lpm

Rack-Mounted Systems

Perma Pure can build a complete rack-mounted sampling system using any size Baldwin cooler to suite your application. Systems include sample pump, water slip sensor and your choice of impingers: stainless steel (best heat transfer), glass, Kynar® or Durinert-coated stainless steel (best corrosion resistance).



- Compact Design
- Incorporates any size cooler
- Kynar filter and water slip sensor
- Complete sampling system with sample pump
- Rack mounted for easy installation

Baldwin™-Series Heated Filter Probes

The Baldwin™-Series direct extractive filter probes feature an advanced design to extract sample gas and remove particulate while preventing condensation prior to the gas sample entering the heated sample line.

- Sure-lock filter reduces risk of leakage
- Range of filter elements for various applications
- Class I, Div. II rated
- Available with air blowback system
- Durinert® or Teflon®-coated filter assemblies



Model 31 – Portable
Models 32C and 33C – General purpose
Models 34C, 34R, 35C, 36C – with Blowback for high particulate applications
Models 34C-Z and 34C-R-Z – Class I Div II with Blowback

Dilution Probe

Dilution extraction probes draw, filter and dilute sample gases in preparation for analysis. The probe dilutes the sample gas 10 to 250 times with dry air, reducing the water vapor content and eliminating the need for high-cost heated line and conditioning systems.

- Selectable dilution ratios
- Out of stack orifice
- Dilution air pre-heater
- Plug-free operation
- Wet basis measurement
- Optional fast loop bypass



Portable Products for the Stack Testers

Perma Pure supports testing companies, integrators and service providers with a lineup of reliable, compact and transportable equipment.

- Baldwin™ Model 31 handheld heated filter probe
- Portable Zero-Air™ generator
- Baldwin™ e-Cool® Mini cooler
- Baldwin™ Tester's Choice cooler
- MiniGASS 28-12 portable Nafion® system



Model 3300 Flow Control Drawer

The Baldwin™-Series Flow Control Drawer provides an easy and compact solution to control sample and calibration gases. The Model 3300 is a 19" rack mountable integrated gas flow control system for monitoring and controlling gases.

- Block and bleed manifold
- Opt. pressure transmitter
- Simple tube connectors
- Up to 6 gas analyzers
- Up to 8 calibration gas channels

